Please replace the paragraph on pages 1a, lines 1-5 to page 2, lines 1 and 2, with the following:

--Summary of the invention

It is an object of the invention to provide a halogen lamp for motor vehicle headlights with a power consumption of between 50 and 100 watts which can be operated on a vehicle supply voltage of 24 volts and ensures homogeneous illumination.--

Please replace the paragraph on page 2, lines 3-6 with the following:

--This object is achieved according to the invention by forming the incandescent filament as a single coil, the dimensions and/or geometry of which are matched to an operating voltage of at least 20 volts. The length of the single coil is in the range from 4.0 mm to 6.5 mm.--

Please replace the paragraph on page 3, line 21 with the following:

--Brief Description of the Drawings--.

On page 3a, before line 7, please insert the following:

--Detailed Description of the Drawings--.

Patent-Treuhand-Gesellschaft für elektrische Glühlampen mbH., Munich

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The invention relates to a halogen lamp for . Halogen lamp motor vehicle headlights according to the preamble of The superior County of the County of patent claim 1.

I. Prior art

There are commercially available halogen lamps air the company to the for headlights of motor vehicles with a vehicle supply voltage of 12 volts. These halogen lamps have a power 15 consumption of about 50-100 watts and at least one incandescent filament, the incandescent filament being singly wound and designed for an operating voltage of

There are also commercially available halogen approximately 12 volts. lamps for headlights of motor vehicles with a vehicle supply voltage of 24 volts. These halogen lamps have a power consumption of between 50 watts and 100 watts and at least one incandescent filament, the incandescent 20 filament being doubly wound and designed for an operating voltage of at least 20 volts. To ensure adequate vibration resistance, the singly wound ends of the doubly wound incandescent filament are provided with insertion pins. Instead of an insertion pin, in each end of the singly wound filament there may remain a residual amount of the core wire which was etched out by means of acid only from the light-emitting, doubly wound region of the incandescent filament, but not out of its singly wound ends. The secondary coil of this doubly wound incandescent filament has only very few 35 turns. The illumination which can be achieved with it has an inhomogeneous effect.

--This application is a U.S. National Phase Application under 35 USC 371 of International Application PCT/DE01/02308 (not published in English) filed June 22, 2001.--

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_ 1a -VII. Summary of the invention

It is the object of the invention to provide a halogen lamp for motor vehicle headlights with a power between 50 watts and 100 watts A Ko 5 consumption of

which can be operated on a vehicle supply voltage of 24 volts and ensures homogeneous illumination.

This object is achieved according to the invention by the features of patent claim 1.

Particularly advantageous embodiments of the invention are described in the subclaims.

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In the case of the halogen lamp according to the invention, the at least one incandescent filament is formed as a single coil, the dimensions and/or geometry of which are matched to an operating voltage of at least 20 volts, the length of the single coil having a value in the range from 4.0 mm to 6.5 mm. By being fitted with the single coil according to the invention and by interacting with the reflector of the motor vehicle headlight, it is possible with the halogen lamp according to the invention to achieve a more homogeneous illumination than aforementioned, previously customary halogen lamps. The restriction of the length of the single coil according to the invention to a range from 4.0 mm to 6.5 mm ensures by the interaction with the reflector of the motor vehicle headlight a directed light emission and a well-defined cone of light. The single coil of the halogen lamp according to the invention has three to four times the number of turns and a significantly smaller distance between the individual turns than the secondary coil of the doubly wound incandescent filament of the previously customary halogen lamps for headlights of motor vehicles with a rated vehicle supply voltage of 24 volts. The single coil of the halogen lamp according to the invention is advantageously provided with a least 20 turns, which are evenly distributed over the length of the single coil to achieve illumination which is as homogeneous as possible.

As a difference from the 12 V halogen lamps described above as prior art, the halogen lamp according to the invention has, on account of the higher operating voltage, as the incandescent filament

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a single coil which is produced from a wire which is thinner and approximately twice as long as the single coil of the 12 [lacuna] halogen lamp. To ensure a great vibration resistance in spite of the thinner 5 Wire, the ends of the incandescent filament of the halogen

lamp according to the invention are advantageously provided with supporting means. Preferably suited as supporting means are supporting filaments or tubes produced from molybdenum foil or molybdenum strip which enclose the unwound ends of the single coil.

The single coil of the halogen lamp according to the invention advantageously has at least 20 turns and an outside diameter of between 1.4 mm and 2.0 mm, so that the halogen lamp according to the invention has, in spite of the comparatively long wire which is for producing the incandescent filament, a spatially compact single coil as the incandescent filament. The diameter of the wire used for producing the incandescent filament advantageously lies between 0.11 mm and 0.14 mm, on the one hand to adapt the 15 filament resistance to the desired power consumption of the halogen lamp according to the invention and on the other hand to make it possible for a spatially compact single coil to be used as the incandescent filament.

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III., Description of the preferred exemplary embodiments

The invention is explained in more detail below on the basis of two preferred exemplary embodiments. In the drawing:

- figure 1 shows a schematic side view of a halogen lamp according to the invention for a singly wound, vehicle headlight with axially arranged incandescent filament
- an axial filament figure 2 shows a plan view of according to the first exemplary embodiment a schematic invention in the of representation
- figure 3 shows a plan view of a transversal filament according to the second exemplary embodiment a schematic the invention in οf

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figure 4 shows a plan view of a single coil according to a third exemplary embodiment of the invention in a schematic representation.

The halogen lamp according to the first exemplary embodiment has an essentially cylindrical lamp vessel 1 with a gastight-sealed pinch